Plasma sources



Plasma sources: Corona Jet

Corona Jet is specifically designed for functionalization treatment and deposition of coating. This plasma source has 2 gas inlet lines, one for the primary plasma gas and a second for the introduction of a precursor in the afterglow.

Corona Jet is provided with 2 different nozzle, a standard one and one with reduced diameter (constricted)



Corona Jet: history

Design, development, prototypation and test of a new CORONA JET plasma source



Supported processes: Corona Jet

Corona Jet is designed for functionalization, surface activation, thin films deposition and treatment of liquids.



Plasma sources: DBD Jet

DBD Jet is designed for the treatment of bio-material both in solid and liquid form. Due to its design this plasma source can be operated both on dielectric and metallic surfaces.





Mounting of the source



Treatment of liquids





Treatment on metallic surface

Supported processes: DBD-Jet

DBD Jet is designed for treatment of surface activation and functionalization, liquids treatment and treatment of biological substrates



Plasma sources: DBD-Rod

DBD-Rod is designed for the treatment of liquid and thin film. This plasma source does not require a gas flow but can be operated in ambient air





Treatment on a metallic surface



Zoom

Mounting of the source



Treatment of liquids

Supported processes: DBD-Rod

DBD Rod is designed for functionalization, surface activation and treatment of liquids.





Plasma sources: DBD-Large Area

DBD-Large Area is specifically designed for functionalization treatment and deposition of coating on thin films. This plasma source has a single gas inlet, and is provided with a specific metal plate to use as ground electrode during operation.

Thanks to its design, the volume between the plasma source and the working surface is saturated by the working gas allowing the generation of plasma in a controlled atmosphere condition.



Improvement of wettability of a polymeric film





Results



Mounting of the source



Treatment of a thin film to improve wettability



Results

Supported processes: DBD-Large Area

DBD Large Area is designed for treatment of functionalization, surface activation, thin film deposition.

